RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: _____ 10/672, 177 B _____

Source: _____ IFWO _____

Date Processed by STIC: _____ 04/26/2006 _____

ENTERED

RAW SEQUENCE LISTING   DATE: 04/26/2006
PATENT APPLICATION: US/10/672,177B   TIME: 10:56:36

Input Set : N:\KEISHA\10672177B.txt
Output Set: N:\CRF4\04262006\J672177B.raw

```
        SEQUENCE LISTING
C-->  3 (1) GENERAL INFORMATION:
      5       (i) APPLICANT: Lezdey, John
      6                      Lezdey, Darren
      7                      Kronis, Anne
      9      (ii) TITLE OF INVENTION: DNA FOR EXPRESSION OF ALPHA
     10                               1-ANTITRYPSIN IN METHYLOTROPIC
     11                               YEAST
     13     (iii) NUMBER OF SEQUENCES: 8
     15      (iv) CORRESPONDENCE ADDRESS:
     17           (A) ADDRESSEE: John Lezdey & Associates
     18           (B) STREET: 2875 MCI DRIVE
     19           (C) CITY: PINELLAS PARK
     20           (D) STATE: FLORIDA
     21           (E) COUNTRY: U.S.A.
     22           (F) ZIP: 33782
     24       (v) COMPUTER READABLE FORM:
     26           (A) MEDIUM TYPE: CD-R
     27           (B) COMPUTER: Hewlett Packard
     28           (C) OPERATING SYSTEM: WINDOWS
     29           (D) SOFTWARE: Microsoft Word
     31      (vi) CURRENT APPLICATION DATA:
C--> 33           (A) APPLICATION NUMBER: US/10/672,177B
C--> 34           (B) FILING DATE: 26-Sep-2003
     36     (vii) PRIOR APPLICATION DATA:
     38           (A) APPLICATION NUMBER: 09/529,401
     39           (B) FILING DATE: 15-Mar-2000
     41    (viii) ATTORNEY/AGENT INFORMATION:
     43           (A) NAME: Lezdey, John
     44           (B) REGISTRATION NUMBER: 22,735
     46           (C) REFERENCE/DOCKET NUMBER: 1435-1
     48      (ix) TELECOMMUNICATION INFORMATION:
     50           (A) TELEPHONE: (727) 456-2585
     51           (B) TELEFAX: (727) 456-2589
     54 (2) INFORMATION FOR SEQ ID NO: 1
C--> 56       (i) SEQUENCE CHARACTERISTICS:
     58           (A) LENGTH: 32
     59           (B) TYPE: NUCLEIC ACID
     60           (C) STRANDEDNESS: SINGLE
     61           (D) TOPOLOGY: UNKNOWN
     63      (ii) MOLECULE TYPE: DNA (Genomic DNA)
     65     (iii) HYPOTHETICAL: No
     67      (iv) ANTI-SENSE: No
```

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C--> 69      (vi) ORIGINAL SOURCE:
     71           (A) ORGANISM: HUMAN
     73      (ix) FEATURE:
     75           (C) IDENTIFICATION METHOD: gene scan
     77      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:
     78  CTC GAG AAG AGA GAG GAT CCC CAG GGA GAT GC  32
     80 (2) INFORMATION FOR SEQ ID NO: 2:
     82      (i) SEQUENCE CHARACTERISTICS:
     84           (A) LENGTH: 32
     85           (B) TYPE: NUCLEIC ACID
     86           (C) STRANDEDNESS: SINGLE
     87           (D) TOPOLOGY: UNKNOWN
     89      (ii) MOLECULE TYPE: DNA (Genomic DNA)
     91     (iii) HYPOTHETICAL: No
     93      (iv) ANTI-SENSE: No
C--> 95      (vi) ORIGINAL SOURCE:
     97           (A) ORGANISM: HUMAN
     99      (ix) FEATURE:
    101           (C) IDENTIFICATION METHOD: gene scan
    103      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:
    104  GC GGC CGC TTA TTT TTG GGT GGG ATT CAG CAG 32
    106 (2) INFORMATION FOR SEQ ID NO: 3
    108      (i) SEQUENCE CHARACTERISTICS:
    110           (A) LENGTH: 24
    111           (B) TYPE: NUCLEIC ACID
    112           (C) STRANDEDNESS: SINGLE
W--> 113          (D) TOPOLOGY: UNKOWN
    115      (ii) MOLECULE TYPE: DNA (Genomic DNA)
    117     (iii) HYPOTHETICAL: No
    119      (iv) ANTI-SENSE: No
C--> 121     (vi) ORIGINAL SOURCE:
C--> 123          (A) ORGANISM: HUMAN
    125      (ix) FEATURE:
C--> 127          (C) IDENTIFICATION METHOD: gene scan
    129      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3:
    130  CAG AAG ACA GAT ACA TCC CAC CAT    24
    132 (2) INFORMATION FOR SEQ ID NO: 4:
    134      (i) SEQUENCE CHARACTERISTICS:
    136           (A) LENGTH: 22
    137           (B) TYPE: NUCLEIC ACID
    138           (C) STRANDEDNESS: SINGLE
    139           (D) TOPOLOGY: UNKNOWN
    141      (ii) MOLECULE TYPE: DNA (Genomic DNA)
    143     (iii) HYPOTHETICAL: No
    145      (iv) ANTI-SENSE: No
C--> 147     (vi) ORIGINAL SOURCE:
    149           (A) ORGANISM: HUMAN
    151      (ix) FEATURE:
C--> 153          (C) IDENTIFICATION METHOD: gene scan
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155      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4:
156   AGG ATT TCA TCG TGA GTG TCA G     22
159   (2) INFORMATION FOR SEQ ID NO: 5:
161        (i) SEQUENCE CHARACTERISTICS:
163             (A) LENGTH: 24
164             (B) TYPE: NUCLEIC ACID
165             (C) STRANDEDNESS: SINGLE
166             (D) TOPOLOGY: UNKNOWN
168       (ii) MOLECULE TYPE: DNA (Genomic DNA)
170      (iii) HYPOTHETICAL: No
172       (iv) ANTI-SENSE: No
C--> 174       (vi) ORIGINAL SOURCE:
176             (A) ORGANISM: HUMAN
178       (ix) FEATURE:
C--> 180             (C) IDENTIFICATION METHOD: gene scan
182      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5:
183   TAC TCA AGG GAA AAT TGT GGA TTT     24
187   (2) INFORMATION FOR SEQ ID NO: 6:
189        (i) SEQUENCE CHARACTERISTICS:
191             (A) LENGTH: 24
192             (B) TYPE: NUCLEIC ACID
193             (C) STRANDEDNESS: SINGLE
194             (D) TOPOLOGY: UNKNOWN
196       (ii) MOLECULE TYPE: DNA (Genomic DNA)
198      (iii) HYPOTHETICAL: No
200       (iv) ANTI-SENSE: No
C--> 202       (vi) ORIGINAL SOURCE:
204             (A) ORGANISM: HUMAN
206       (ix) FEATURE:
C--> 208             (C) IDENTIFICATION METHOD: gene scan
210      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6:
211   AGC TTC TTA CAG TGC TGG ATG TTA     24
214   (2) INFORMATION FOR SEQ ID NO: 7:
216        (i) SEQUENCE CHARACTERISTICS:
218             (A) LENGTH: 24
219             (B) TYPE: NUCLEIC ACID
220             (C) STRANDEDNESS: SINGLE
221             (D) TOPOLOGY: UNKNOWN
223       (ii) MOLECULE TYPE: DNA (Genomic DNA)
225      (iii) HYPOTHETICAL: No
227       (iv) ANTI-SENSE: No
C--> 229       (vi) ORIGINAL SOURCE:
231             (A) ORGANISM: HUMAN
233       (ix) FEATURE:
C--> 235             (C) IDENTIFICATION METHOD: gene scan
237      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7:
238   GTT CAA CAA ACC CTT TGT CTT CTT     24
C--> 241   (2) INFORMATION FOR SEQ ID NO: 8:
243        (i) SEQUENCE CHARACTERISTICS:
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RAW SEQUENCE LISTING   DATE: 04/26/2006
PATENT APPLICATION: US/10/672,177B   TIME: 10:56:36

            Input Set : N:\KEISHA\10672177B.txt
            Output Set: N:\CRF4\04262006\J672177B.raw

```
        245           (A) LENGTH: 24
        246           (B) TYPE: NUCLEIC ACID
        247           (C) STRANDEDNESS: SINGLE
        248           (D) TOPOLOGY: UNKNOWN
        250      (ii) MOLECULE TYPE: DNA (Genomic DNA)
        252     (iii) HYPOTHETICAL: No
        254      (iv) ANTI-SENSE: No
C--> 256      (vi) ORIGINAL SOURCE:
        258           (A) ORGANISM: HUMAN
        260      (ix) FEATURE:
C--> 262           (C) IDENTIFICATION METHOD: gene scan
        264      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 8:
        265  GGG AGA CTT GGT ATT TTG TTC AAT      24
```

VERIFICATION SUMMARY   DATE: 04/26/2006
PATENT APPLICATION: US/10/672,177B   TIME: 10:56:37

Input Set : **N:\KEISHA\10672177B.txt**
Output Set: **N:\CRF4\04262006\J672177B.raw**

L:3 M:220 C: Keyword misspelled or invalid format, [(1) GENERAL INFORMATION:]
L:33 M:220 C: Keyword misspelled or invalid format, [(A) APPLICATION NUMBER:]
L:34 M:220 C: Keyword misspelled or invalid format, [(B) FILING DATE:]
L:56 M:220 C: Keyword misspelled or invalid format, [(i) SEQUENCE CHARACTERISTICS:]
L:69 M:220 C: Keyword misspelled or invalid format, [(vi) ORIGINAL SOURCE:]
L:95 M:220 C: Keyword misspelled or invalid format, [(vi) ORIGINAL SOURCE:]
L:121 M:220 C: Keyword misspelled or invalid format, [(vi) ORIGINAL SOURCE:]
L:123 M:220 C: Keyword misspelled or invalid format, [(A) ORGANISM:]
L:127 M:220 C: Keyword misspelled or invalid format, [(C) IDENTIFICATION METHOD:]
L:113 M:246 W: Invalid value of Alpha Sequence Header Field, [TOPOLOGY:], SeqNo=3
L:147 M:220 C: Keyword misspelled or invalid format, [(vi) ORIGINAL SOURCE:]
L:153 M:220 C: Keyword misspelled or invalid format, [(C) IDENTIFICATION METHOD:]
L:174 M:220 C: Keyword misspelled or invalid format, [(vi) ORIGINAL SOURCE:]
L:180 M:220 C: Keyword misspelled or invalid format, [(C) IDENTIFICATION METHOD:]
L:202 M:220 C: Keyword misspelled or invalid format, [(vi) ORIGINAL SOURCE:]
L:208 M:220 C: Keyword misspelled or invalid format, [(C) IDENTIFICATION METHOD:]
L:229 M:220 C: Keyword misspelled or invalid format, [(vi) ORIGINAL SOURCE:]
L:235 M:220 C: Keyword misspelled or invalid format, [(C) IDENTIFICATION METHOD:]
L:241 M:220 C: Keyword misspelled or invalid format, [(2) INFORMATION FOR SEQ ID NO:]
L:256 M:220 C: Keyword misspelled or invalid format, [(vi) ORIGINAL SOURCE:]
L:262 M:220 C: Keyword misspelled or invalid format, [(C) IDENTIFICATION METHOD:]